

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P190864

Luminaire Tested: **GAN-AF-06-LED-U-5NQ-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5NQ-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41209.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

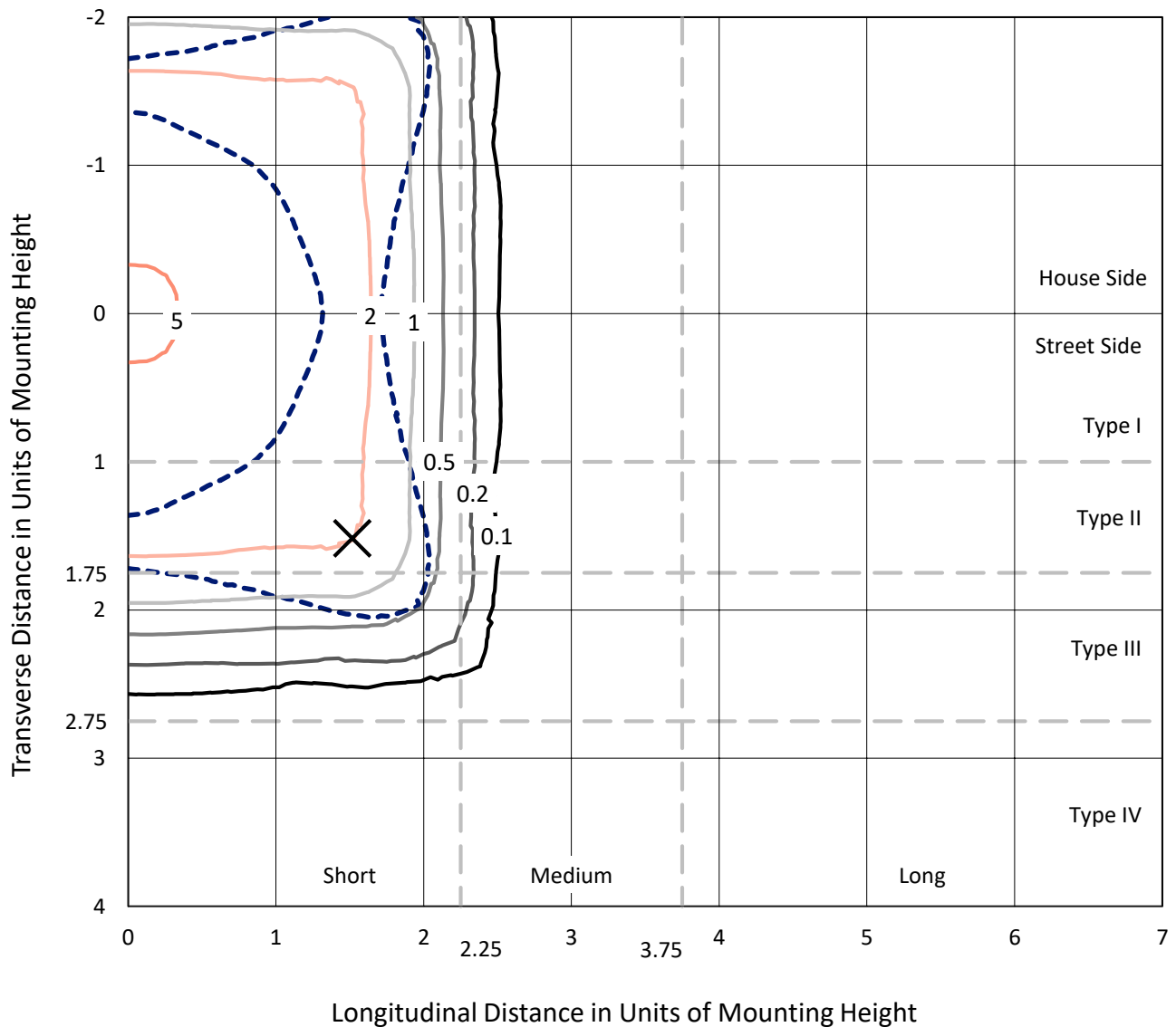


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

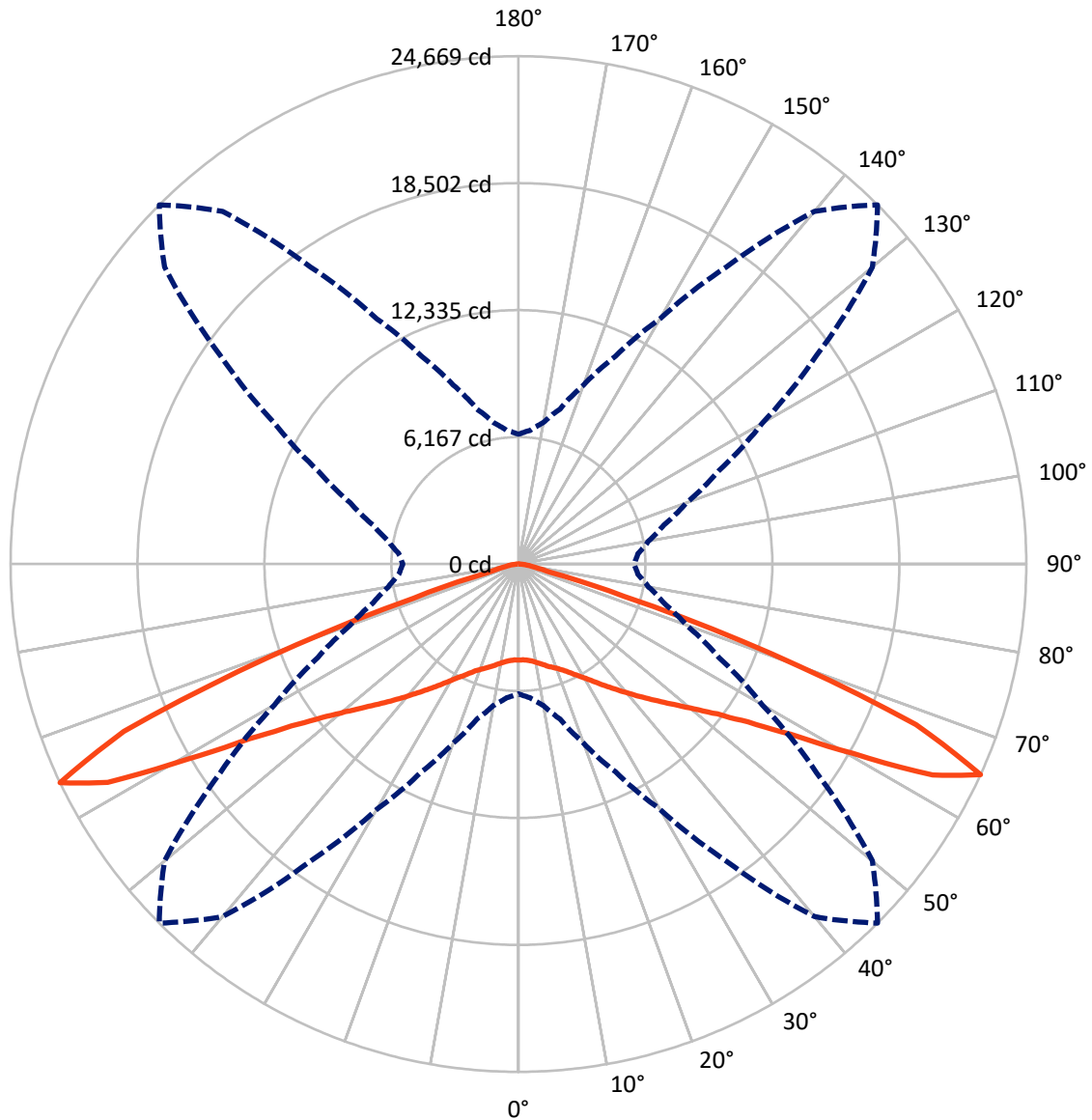


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20604.8 | 0.0 | 20604.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20604.8 | 0.0 | 20604.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 41209.6 | 0.0 | 41209.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.5 | 1.1 |
| 10°-20° | 1457.6 | 3.5 |
| 20°-30° | 2725.4 | 6.6 |
| 30°-40° | 4609.5 | 11.2 |
| 40°-50° | 7537.0 | 18.3 |
| 50°-60° | 11985.0 | 29.1 |
| 60°-70° | 10833.7 | 26.3 |
| 70°-80° | 1371.0 | 3.3 |
| 80°-90° | 235.8 | 0.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 41209.6 | 100.0 |
| 0°-180° | 41209.6 | 100.0 |

Coefficient of Utilization



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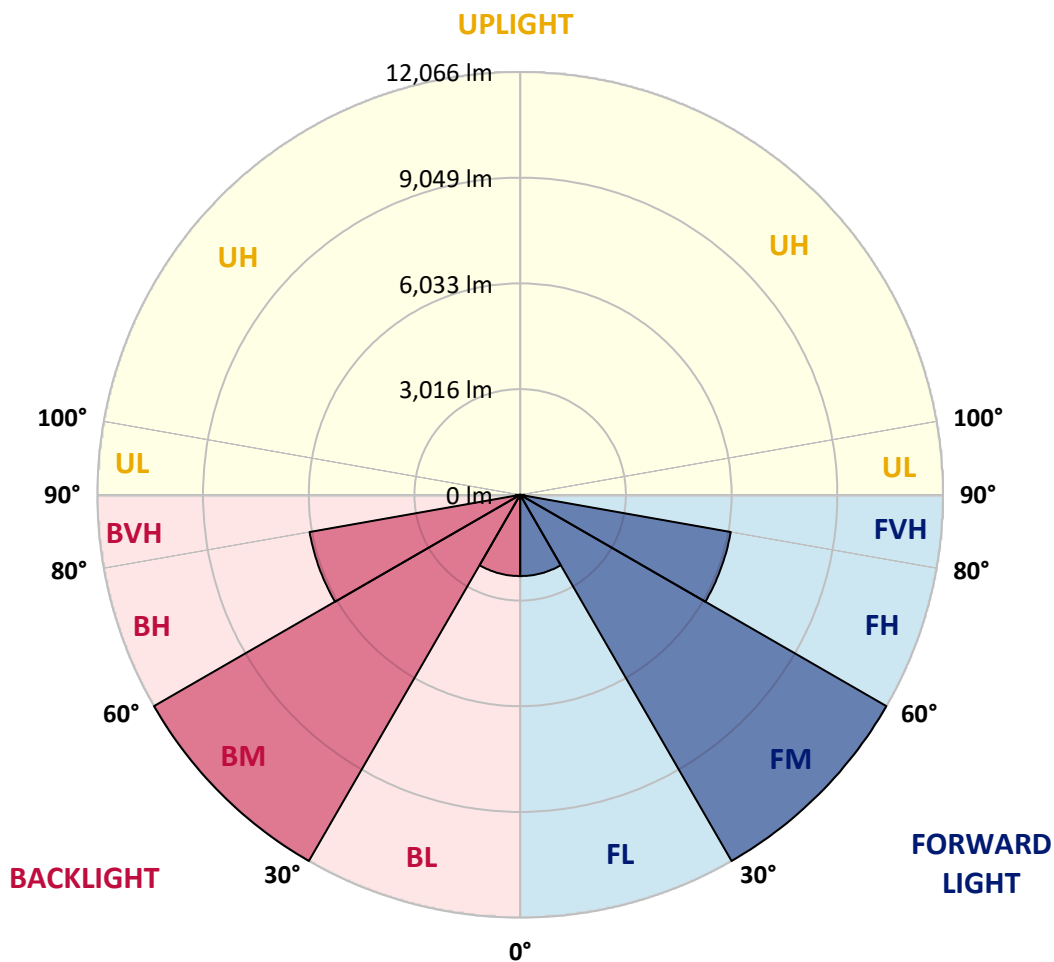
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2318.8 | 5.6 | | | |
| FM | (30°-60°) | 12065.7 | 29.3 | | | |
| FH | (60°-80°) | 6102.4 | 14.8 | | | G3/7500 |
| FVH | (80°-90°) | 117.9 | 0.3 | | | G2/225 |
| BL | (0°-30°) | 2318.8 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 12065.7 | 29.3 | B5 | | |
| BH | (60°-80°) | 6102.4 | 14.8 | B5 | | G3/7500 |
| BVH | (80°-90°) | 117.9 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 |
| 2.5° | 4666.7 | 4670.6 | 4674.5 | 4670.6 | 4674.5 | 4668.6 | 4664.9 | 4670.6 | 4664.9 | 4659.0 | 4662.9 |
| 5° | 4707.3 | 4709.3 | 4709.3 | 4703.4 | 4709.3 | 4705.4 | 4699.5 | 4707.3 | 4701.5 | 4695.7 | 4699.5 |
| 7.5° | 4774.8 | 4782.5 | 4776.8 | 4770.9 | 4774.8 | 4770.9 | 4767.2 | 4769.0 | 4767.2 | 4761.3 | 4763.3 |
| 10° | 4865.6 | 4871.3 | 4867.5 | 4865.6 | 4869.3 | 4867.5 | 4863.6 | 4861.7 | 4863.6 | 4857.8 | 4857.8 |
| 12.5° | 4975.5 | 4973.6 | 4971.6 | 4973.6 | 4979.4 | 4979.4 | 4977.5 | 4979.4 | 4983.3 | 4985.1 | 4981.4 |
| 15° | 5083.7 | 5087.4 | 5087.4 | 5087.4 | 5099.1 | 5108.7 | 5114.5 | 5118.3 | 5126.1 | 5128.1 | 5120.3 |
| 17.5° | 5218.7 | 5218.7 | 5216.8 | 5218.7 | 5230.3 | 5245.8 | 5251.5 | 5259.3 | 5267.0 | 5272.8 | 5263.1 |
| 20° | 5369.3 | 5373.2 | 5373.2 | 5376.9 | 5392.4 | 5409.8 | 5409.8 | 5413.7 | 5409.8 | 5413.7 | 5407.8 |
| 22.5° | 5552.6 | 5564.2 | 5564.2 | 5566.1 | 5581.5 | 5602.8 | 5597.0 | 5602.8 | 5593.2 | 5600.9 | 5593.2 |
| 25° | 5791.9 | 5809.3 | 5805.5 | 5805.5 | 5817.0 | 5830.5 | 5832.5 | 5844.0 | 5842.1 | 5851.8 | 5846.0 |
| 27.5° | 6062.1 | 6089.1 | 6096.9 | 6094.9 | 6102.6 | 6116.2 | 6120.0 | 6133.5 | 6125.8 | 6133.5 | 6129.7 |
| 30° | 6386.4 | 6397.9 | 6413.4 | 6419.2 | 6428.8 | 6442.3 | 6442.3 | 6444.3 | 6434.7 | 6446.2 | 6452.0 |
| 32.5° | 6722.2 | 6743.4 | 6758.8 | 6793.6 | 6811.0 | 6820.6 | 6818.7 | 6822.6 | 6813.0 | 6828.3 | 6840.0 |
| 35° | 7166.1 | 7181.5 | 7206.6 | 7233.7 | 7256.8 | 7254.9 | 7249.0 | 7251.0 | 7251.0 | 7264.5 | 7276.1 |
| 37.5° | 7700.7 | 7704.6 | 7737.4 | 7776.0 | 7787.5 | 7776.0 | 7741.3 | 7733.5 | 7716.1 | 7733.5 | 7752.8 |
| 40° | 8266.2 | 8279.7 | 8345.3 | 8370.4 | 8376.2 | 8355.0 | 8304.8 | 8275.9 | 8237.2 | 8258.5 | 8285.5 |
| 42.5° | 8858.8 | 8885.8 | 8945.6 | 8990.0 | 9009.2 | 8995.7 | 8926.3 | 8881.9 | 8831.6 | 8843.3 | 8870.3 |
| 45° | 9514.9 | 9547.7 | 9632.6 | 9675.1 | 9711.8 | 9690.5 | 9623.0 | 9555.5 | 9476.3 | 9482.1 | 9524.6 |
| 47.5° | 10248.3 | 10281.2 | 10391.1 | 10462.5 | 10481.9 | 10478.0 | 10402.7 | 10310.1 | 10202.0 | 10198.1 | 10234.8 |
| 50° | 11070.5 | 11103.3 | 11240.3 | 11350.4 | 11406.3 | 11400.5 | 11311.8 | 11180.5 | 11049.3 | 11051.1 | 11097.5 |
| 52.5° | 11873.4 | 11913.9 | 12056.7 | 12245.8 | 12355.9 | 12435.0 | 12381.0 | 12257.4 | 12097.2 | 12101.1 | 12143.6 |
| 55° | 12626.1 | 12693.6 | 12857.7 | 13114.3 | 13318.9 | 13540.9 | 13604.6 | 13600.7 | 13504.2 | 13531.3 | 13573.7 |
| 57.5° | 12990.9 | 13091.2 | 13344.0 | 13749.4 | 14166.2 | 14617.9 | 14999.9 | 15285.6 | 15407.2 | 15590.6 | 15548.1 |
| 60° | 12299.9 | 12460.1 | 12832.6 | 13429.0 | 14253.1 | 15194.9 | 16204.3 | 17190.5 | 18032.0 | 18667.0 | 18302.2 |
| 62.5° | 10070.7 | 10279.2 | 10730.9 | 11495.1 | 12741.9 | 14249.2 | 16181.1 | 18512.5 | 21052.4 | 22584.9 | 21490.6 |
| 65° | 6301.5 | 6517.6 | 6976.9 | 7795.3 | 9254.3 | 11128.4 | 13749.4 | 17613.2 | 22359.0 | 24669.3 | 22442.1 |
| 67.5° | 2456.9 | 2574.7 | 2823.5 | 3346.6 | 4442.9 | 6110.4 | 8741.0 | 13126.0 | 18802.0 | 20826.7 | 18452.7 |
| 70° | 1231.3 | 1242.9 | 1289.2 | 1385.8 | 1621.2 | 2105.6 | 3203.8 | 6085.3 | 10782.9 | 13023.7 | 10395.0 |
| 72.5° | 889.8 | 891.7 | 914.8 | 957.3 | 1032.6 | 1140.6 | 1349.1 | 1862.5 | 3506.8 | 5359.6 | 3286.8 |
| 75° | 681.3 | 689.1 | 702.6 | 725.7 | 766.2 | 820.2 | 895.5 | 1073.1 | 1329.7 | 1542.1 | 1297.0 |
| 77.5° | 525.0 | 540.4 | 550.0 | 571.3 | 596.4 | 633.0 | 654.3 | 721.8 | 839.5 | 883.9 | 870.4 |
| 80° | 399.5 | 413.1 | 434.2 | 451.6 | 469.0 | 486.3 | 478.6 | 509.5 | 571.3 | 607.9 | 588.6 |
| 82.5° | 254.7 | 270.2 | 331.9 | 347.4 | 355.2 | 366.7 | 353.2 | 355.2 | 382.2 | 405.3 | 382.2 |
| 85° | 164.1 | 173.7 | 210.4 | 229.7 | 231.6 | 239.4 | 233.5 | 220.0 | 220.0 | 200.7 | 225.8 |
| 87.5° | 75.3 | 77.2 | 94.5 | 111.9 | 115.8 | 104.2 | 102.3 | 98.4 | 79.2 | 75.3 | 81.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 | 4662.9 |
| 2.5° | 4661.0 | 4664.9 | 4666.7 | 4672.5 | 4674.5 | 4674.5 | 4676.4 | 4680.2 |
| 5° | 4697.6 | 4703.4 | 4705.4 | 4713.0 | 4715.0 | 4713.0 | 4716.9 | 4718.9 |
| 7.5° | 4763.3 | 4772.9 | 4776.8 | 4784.4 | 4778.7 | 4786.4 | 4788.3 | 4788.3 |
| 10° | 4859.7 | 4869.3 | 4871.3 | 4879.1 | 4875.2 | 4879.1 | 4879.1 | 4875.2 |
| 12.5° | 4987.1 | 4989.0 | 4983.3 | 4989.0 | 4981.4 | 4985.1 | 4979.4 | 4975.5 |
| 15° | 5128.1 | 5122.2 | 5108.7 | 5108.7 | 5097.2 | 5099.1 | 5097.2 | 5095.2 |
| 17.5° | 5265.0 | 5253.5 | 5243.9 | 5240.0 | 5230.3 | 5228.4 | 5222.6 | 5222.6 |
| 20° | 5415.6 | 5409.8 | 5404.0 | 5396.3 | 5386.7 | 5376.9 | 5375.1 | 5378.9 |
| 22.5° | 5597.0 | 5595.0 | 5595.0 | 5591.2 | 5577.7 | 5568.0 | 5562.3 | 5562.3 |
| 25° | 5840.2 | 5822.8 | 5822.8 | 5820.9 | 5815.1 | 5809.3 | 5797.7 | 5803.5 |
| 27.5° | 6114.3 | 6104.6 | 6112.3 | 6110.4 | 6104.6 | 6104.6 | 6096.9 | 6096.9 |
| 30° | 6452.0 | 6448.2 | 6459.7 | 6450.1 | 6430.8 | 6428.8 | 6421.2 | 6411.4 |
| 32.5° | 6841.9 | 6838.0 | 6855.4 | 6843.7 | 6813.0 | 6795.6 | 6780.1 | 6772.3 |
| 35° | 7276.1 | 7278.0 | 7299.3 | 7291.6 | 7256.8 | 7245.3 | 7218.2 | 7214.4 |
| 37.5° | 7750.9 | 7781.8 | 7818.4 | 7826.2 | 7797.2 | 7789.5 | 7760.5 | 7745.1 |
| 40° | 8308.6 | 8349.2 | 8405.2 | 8418.7 | 8387.8 | 8382.0 | 8341.4 | 8320.3 |
| 42.5° | 8903.2 | 8972.6 | 9042.1 | 9053.6 | 9022.7 | 8991.8 | 8953.3 | 8937.8 |
| 45° | 9567.0 | 9650.0 | 9740.7 | 9763.9 | 9717.5 | 9680.9 | 9630.7 | 9630.7 |
| 47.5° | 10312.0 | 10416.2 | 10518.5 | 10582.2 | 10539.8 | 10501.1 | 10441.4 | 10402.7 |
| 50° | 11192.1 | 11334.9 | 11468.1 | 11533.7 | 11466.2 | 11392.8 | 11288.6 | 11253.9 |
| 52.5° | 12296.1 | 12450.4 | 12566.2 | 12531.5 | 12427.3 | 12325.0 | 12211.2 | 12164.8 |
| 55° | 13705.0 | 13757.1 | 13757.1 | 13625.8 | 13417.3 | 13245.6 | 13066.2 | 13006.3 |
| 57.5° | 15467.0 | 15266.3 | 14957.5 | 14565.7 | 14073.6 | 13645.1 | 13355.6 | 13218.6 |
| 60° | 17538.0 | 16572.9 | 15482.5 | 14411.3 | 13531.3 | 12805.6 | 12375.1 | 12178.3 |
| 62.5° | 18917.8 | 16393.4 | 14208.7 | 12489.0 | 11223.0 | 10348.7 | 9754.2 | 9522.6 |
| 65° | 17680.8 | 13672.1 | 10746.3 | 8688.8 | 7308.9 | 6419.2 | 5830.5 | 5614.4 |
| 67.5° | 12950.4 | 8567.3 | 5722.5 | 4101.2 | 3005.0 | 2397.1 | 2155.8 | 2055.4 |
| 70° | 5813.1 | 3016.6 | 1849.0 | 1443.7 | 1244.8 | 1142.5 | 1098.1 | 1082.7 |
| 72.5° | 1752.4 | 1268.0 | 1069.2 | 965.1 | 885.9 | 835.6 | 799.0 | 795.1 |
| 75° | 1057.6 | 880.0 | 781.6 | 719.9 | 669.7 | 629.2 | 609.9 | 604.1 |
| 77.5° | 739.2 | 646.5 | 600.3 | 555.9 | 517.2 | 486.3 | 469.0 | 455.5 |
| 80° | 519.1 | 474.8 | 453.6 | 428.4 | 403.3 | 374.4 | 349.3 | 337.8 |
| 82.5° | 347.4 | 337.8 | 337.8 | 322.3 | 301.1 | 274.0 | 223.9 | 212.3 |
| 85° | 223.9 | 222.0 | 225.8 | 220.0 | 204.6 | 175.6 | 144.7 | 137.1 |
| 87.5° | 104.2 | 106.2 | 117.7 | 115.8 | 111.9 | 92.7 | 73.3 | 69.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)